

## Verification and Inspection of Treatment Control BMPs

All storm water BMPs should be regularly inspected by the property owner or responsible party to ensure continued effectiveness and structural integrity. In addition, the City will require private property owners to verify the maintenance of treatment control BMPs on an annual basis. The City has developed a verification form for private property owners and responsible parties to use. Verification includes a signed statement from the property owner or responsible party confirming that treatment control BMP(s) have been maintained as required. The verification form can be submitted by fax or mail to the City and can also be downloaded from the City's webpage at [www.carlsbadca.gov](http://www.carlsbadca.gov). Please note that all private property owners are required to maintain their treatment control BMPs and comply with all applicable regulations outlined in the Carlsbad Municipal Code.



City of Carlsbad  
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Carlsbad, CA 92008

## STENCIL A STORM DRAIN

Storm drain stenciling is an educational, interactive tool to engage people of all ages in community involvement for watershed pollution prevention. It is a *pollution solution* project for students and community involvement for adults. Stencil the storm drains that drain to the treatment control BMP on your private property. It's a great way to educate neighbors, residents, contractors, and visitors about pollution prevention. Distinguish your property as being environmentally conscious. The City has storm drain stencils for loan or you may develop your own signs.



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# What You Need to Know About Privately Owned

## Treatment Control BMPs



City of Carlsbad  
Storm Water Compliance  
Guidelines for  
Treatment Control Best  
Management Practices

# A Clean Environment Is Important to all of Us!

## What are Treatment Control BMP's?

Treatment control best management practices (BMPs) are structures or devices that help to prevent pollutants from entering our storm drain system. They are primarily designed to provide treatment of storm water either through storage, filtration, or infiltration. As land is developed, vegetation is replaced with paved surfaces and rooftops which results in a higher potential for storm water pollution. The intent of treatment control BMPs is to assure that storm water runoff from developed areas does not impact waterways.

**Treatment Control BMPs can help protect our waters ways from:**

Sediments  
Trash and Debris  
Oil and Grease  
Bacteria and Viruses

## Who is responsible for maintaining treatment control BMPs?

Maintenance of treatment control BMPs is a shared responsibility between the City and the community. Treatment control BMPs and other storm drain structures on public streets and property are maintained by the City. Private property owners are responsible for maintaining treatment control BMPs on their properties including keeping their portion of the storm drain system free of trash, sediments, excessive vegetation, and other materials that may contribute to storm water pollution.



## What are the most common treatment control BMPs are found in Carlsbad?

- **Dry Extended Detention Basins:** Also known as dry ponds, dry extended detention basins are designed to hold storm water runoff while allowing pollutants to settle out.
- **Infiltration Basins:** An infiltration basin is a shallow pond that uses the natural filtering ability of the soil to remove pollutants in storm water runoff. Infiltration basins store runoff until it gradually filters through the soil and eventually into the water table. These basins have high pollutant removal efficiency and can also help recharge groundwater
- **Media Filters:** Storm water media filters are usually two-chambered pretreatment settling devices that include a sand filter or other absorptive filtering media. As storm water flows into the first chamber, large particles settle out, and then finer particles are removed as storm water flows through the filter in the second chamber.
- **Wet Vaults:** A wet vault is generally 3 to 5 feet deep and allows storm water flows in while constricting it at the outlet. This causes a temporary rise of the water level and slowly releases water while holding back pollutants.
- **Vortex Separator:** This treatment control BMP uses gravity to help separate pollutants from storm water. Vortex separators move water in a circular motion, rather than a straight line making, it possible to remove a significant amount of suspended sediments and pollutants
- **Drain Inserts:** They are filters or fabric placed in a storm drain inlets to help remove sediment and debris. There are a three main types of drain inserts; **fabric socks** attached to a frame or grate of the storm drain and filter out pollutants; boxes are plastic or wire mesh screens that filter out large particles; and trays hold different types of media filters that collect trash and debris.



## Be Part of the Pollution Solution!

There are several things you can do to help maintain the treatment control BMPs on your property. Before and after a heavy rain, please remember to:

- ✓ Check and clean the gutters and drainage ditches around your property. Blockages can cause water to pond and damage your property and parking lots.
- ✓ Remove leaves, branches, roadside litter, weeds or any material that can block treatment control BMPs.
- ✓ NEVER use a hose to clean a storm drain or treatment control BMP. Avoid using blowers that only displace residue. Dispose of waste and trash properly.
- ✓ Check the storm drains inlets to be sure they are free of any materials and debris. Check the drainage path and remove any debris.
- ✓ Report any unauthorized access or illegal dumping into drainage systems. Call the Storm Water Hotline at 760-602-2799 to report spills or illegal discharges.
- ✓ You can also find information about the treatment control BMP maintenance verification and inspection program at [www.carlsbadca.gov](http://www.carlsbadca.gov).

**For more information or assistance, please call 760-602-2780**